PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference O.Z. 6224-WO FOR FURTHER A		CTION	See Form PCT/IPEA/416		
	International application No. International filing date PCT/EP2004/050812 14.05.2004		(day/month/year)	Priority date (day/month/y 03.07.2003	rear)
1	national Patent Classification (IPC) 3K3/00, C08K3/36, C08K3/20				
1 ''	icant GUSSA AG et al				
1.	This report is the international Authority under Article 35 and	preliminary examination re transmitted to the applican	port, established by t according to Article	this International Preliminary	y Examining
2.	This REPORT consists of a to	tal of 5 sheets, including th	nis cover sheet.		
з.					
	a. 🗆 sent to the applicant ar	nd to the International Bure	au) a total of sheets	s, as follows:	
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				s of this report n 607 of the
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				ent that goes . I and the
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4.	4. This report contains indications relating to the following items:				
	☐ Box No. I Basis of the	oninion			
	☐ Box No. II Priority	ориноп			
		shment of opinion with rega	rd to novelty, inventi	ve step and industrial applic	ability
	_	of invention			
	Box No. V Reasoned s applicability	tatement under Article 35(2 citations and explanations	e) with regard to nove supporting such sta	elty, inventive step or industr tement	ial
		uments cited			
Ì	☐ Box No. VII Certain defe	cts in the international app	lication		
	☐ Box No. VIII Certain obs	ervations on the internation	al application		
Date	Date of submission of the demand		Date of completion o	f this report	
22.	22.10.2004		29.06.2005		
	ne and mailing address of the internal iminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 5 Fax: +49 89 2399 - 4465	Authorized Officer Telephone No. +49 8	•	Transfer of the state of the st	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/050812

_	Bo	x No. I Basis of the report			
1.			s report is based on the international application in the language in which it was		
		which is the language of a transfer international search (und ☐ publication of the internation of the inter	slations from the original language into the following language, ranslation furnished for the purposes of: er Rules 12.3 and 23.1(b)) tional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)		
2.	hav	With regard to the elements* of the international application, this report is based on <i>(replacement shee)</i> have been furnished to the receiving Office in response to an invitation under Article 14 are referred to it report as "originally filed" and are not annexed to this report):			
	Des	scription, Pages			
	1-16		as originally filed		
	Cla	ims, Numbers			
	1-25	5	as originally filed		
		a sequence listing and/or an	y related table(s) - see Supplemental Box Relating to Sequence Listing		
3.		The amendments have resulted in the cancellation of: ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):			
4.	had Sup	This report has been established as if (some of) the amendments annexed to this report and listed below not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the oplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):			
	*	If item 4 applies, so	me or all of these sheets may be marked "superseded "		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/050812

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 10-19

No: Claims 1-9, 20-25

Inventive step (IS) Yes: Claims 10-19

No: Claims 1-9, 20-25

Industrial applicability (IA) Yes: Claims 1-25

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V.

The following documents are referred to in this communication:

D1: US 2003/050419 A1 (SANDERS JASON L ET AL) 13 March 2003 (2003-03-13)

D2: US 5 164 501 A (KLEINSCHMIT PETER ET AL) 17 November 1992 (1992-11-17)

D3: US 6 054 651 A (LAURO PAUL ALFRED ET AL) 25 April 2000 (2000-04-25)

D4: US 2003/191226 A1 (CHAPMAN DAVID MONROE ET AL) 9 October 2003 (2003-10-09)

1. Claim 1

Document D1 discloses a formulation comprising a polysiloxane loaded with high amounts of a thermal conductive filler without increase of viscosity (§ 10, cl. 6). Tables A/B deal with a composition comprising propyltrimethoxysilane, aluminium oxide and zinc oxide. The amount of filler inorganic oxide particles and the viscosity of the compositions is not explicitly given (80-92 vol.%), but it can not be ruled out that these data are within the claimed range (Since D1 is directed to a highly filler-loaded composition with viscosity in flowable range). The applicant is requested to comment on this issue.

Document D2 is directed to a rubber mixture comprising (col. 8, I. 10-39) fine precipitated silicic acids, zinc oxide and 3-butenyl trimethoxysilane. The filler represents 25% by weight of the formulation. No indication of viscosity is given in D2, but again, it can not be ruled out that the compositions described in D2 show viscosity lower than 1500mPa.s.

Document D3 recites in Ex. 3 a resin comprising 8.5, 16 or 22 % by weight of inorganic oxidic filler and methyltrimethoxysilane. The composition is said to have a low viscosity (col. 2, l. 16-18).

Document D4 is directed to a formulation comprising inorganic acid particles and a binder. Ex. XIII refers to a dispersion with 18% solids comprising silica, HCI and 3-

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amino-propyltriethoxysilane. It is disclosed that the viscosity of the composition ranges from 1 to 10.000 centipoises (1 cp = 1 mPa.s).

The subject-matter of claim is at present not considered as being novel (Art. 33(2) PCT). Should the applicant be of the opinion that documents D1-D4 are not novelty-destroying for present claim 1, he should provide convincing arguments tending to prove it.

- 2. The process of claim 10 is neither known, nor rendered obvious from the cited prior art.
- 3. The subject-matter of claims 21 and 24 is known from the prior art (D1: cl.1; D2: col.5, I. 13-18; D4: § 8), and thus, not considered as being novel.

4. Miscellaneous

The meaning of claim 20 is unclear. The subject-matter of claim 20 is identical to what is claimed in claims 1-8.

Claim 24 and 25 are unclear or wrongly formulated. Claim 24 refers to an articles defined by means of use-features. Claims 24 ans 25 are redundant.